Trend Analysis of Army Air Quality Issues

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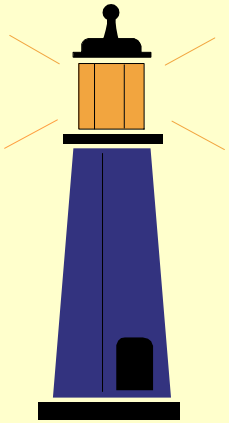
USACHPPM
Readiness thru Health

Trend Analysis Research Process

- US Army CONUS ECAS assessments FY 1996-2002
- Database includes findings for: Air Quality, Asbestos, & Air-related NSPS (Storage Tanks, Landfills)
- 128 ECAS Assessments
- 60 Army Installations
- 546 Negative Air Quality Findings
- 404 Total Class I Findings

Keyword Guide



- Developed keyword templates for each finding and each finding issue
- Emission Source Keyword - categorizes the type of air pollution source
- Issue Keyword - illuminates the specific deficiency with the air emission source

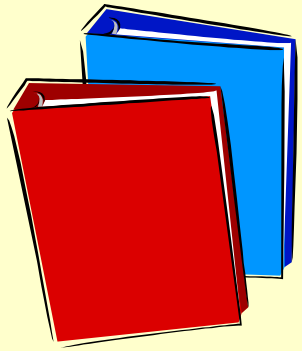
Emission Source Keywords

- Abrasive
- Asbestos
- Boiler
- Cold Degreaser
- Conformity
- Drycleaner
- Environmental
- Gas
- Generator
- Installation-wide (affect entire installation)
- Incinerator
- Landfill
- Laundry

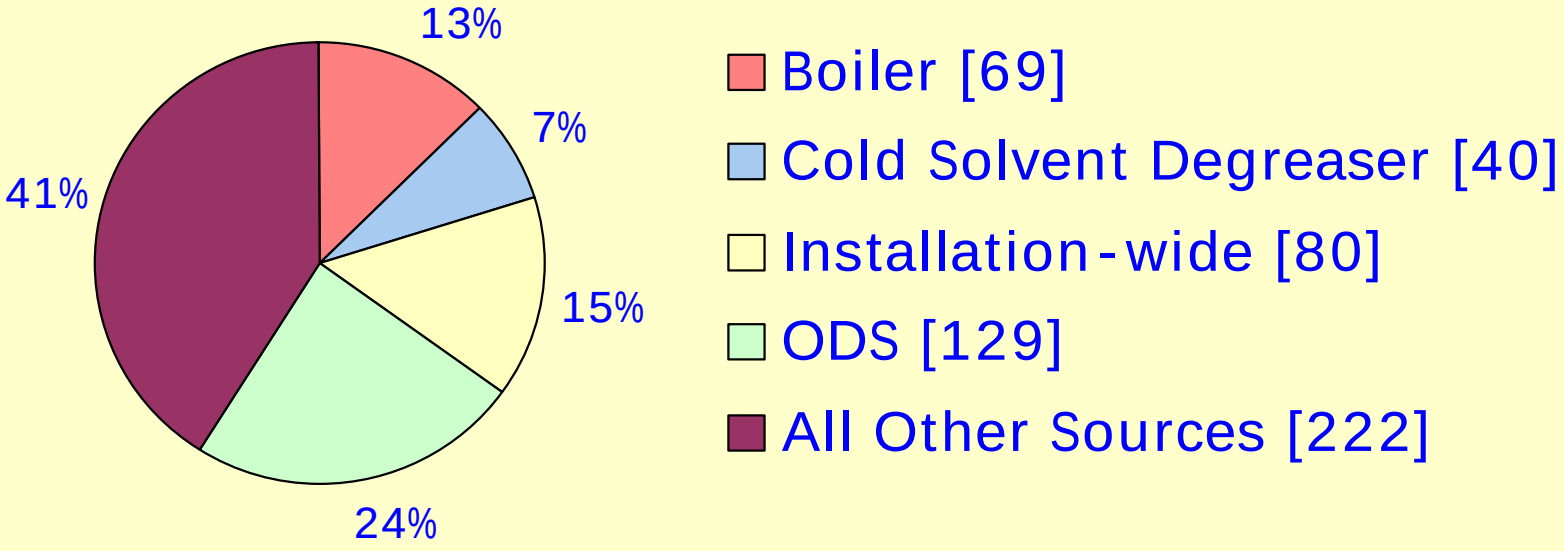
- Mobile
- Open Burn/Open Detonation
- Ozone Depleting Substances
- Miscellaneous
- Paint
- Paint Spray Booth
- Regulations
- Tank
- Vapor Degreaser
- Woodwork
- Water Treatment Plants

Compliance Issue Keywords

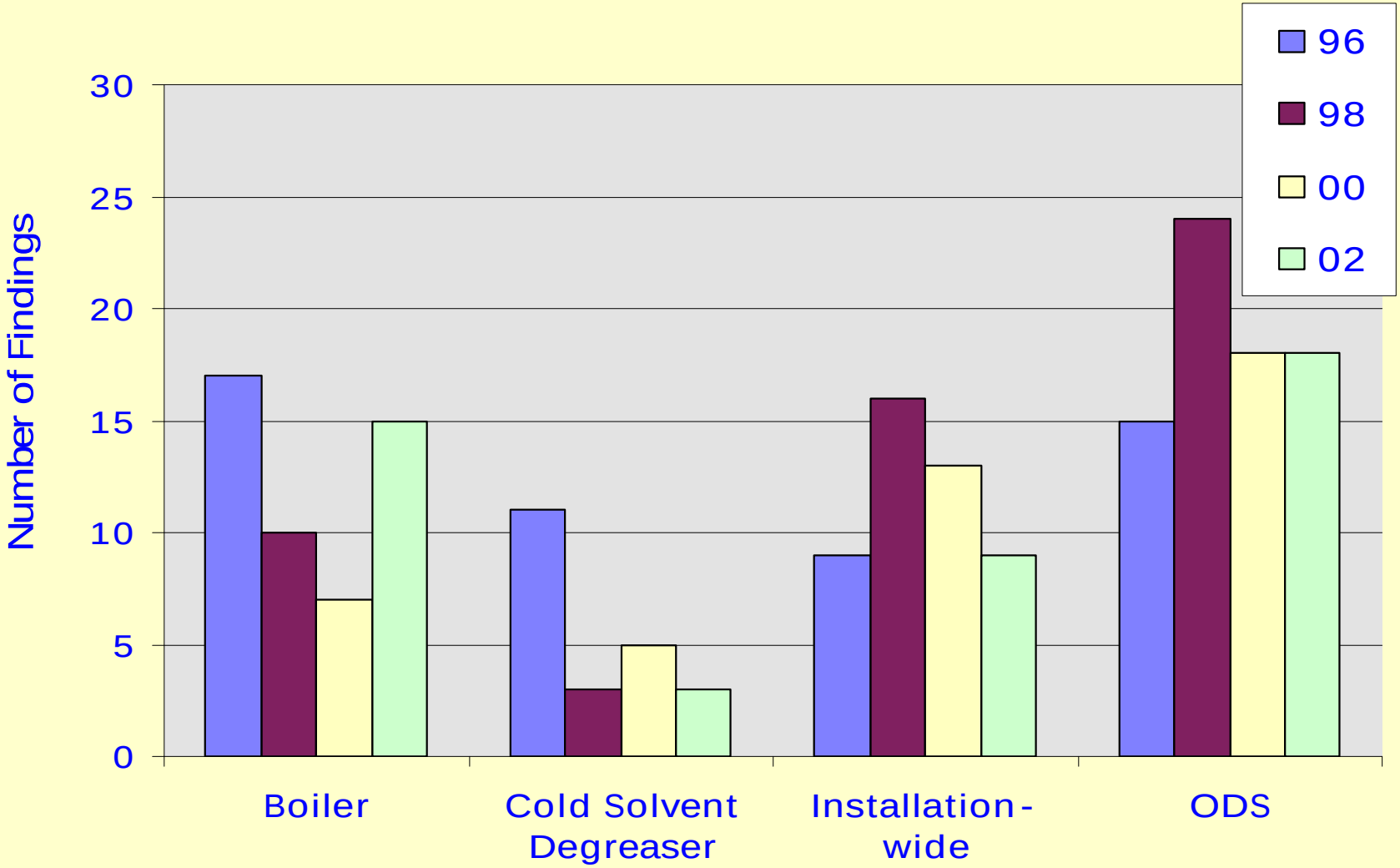
- Emission Control
- Disposal
- Emission Inventory
- Manage
- Monitor
- Notice of Violation
- New Source Review (includes PSD)
- Miscellaneous
- Permits
- Plans
- Operating Procedure
- Record keeping
- Report
- Risk Management Plan
- Title V
- Training



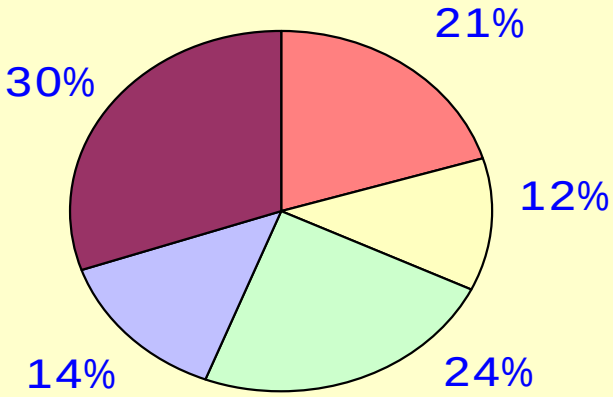
Emission Sources with Greatest Number of ECAS Findings FY96-FY02



Annual Trends - Emission Sources with Greatest Number of ECAS Findings

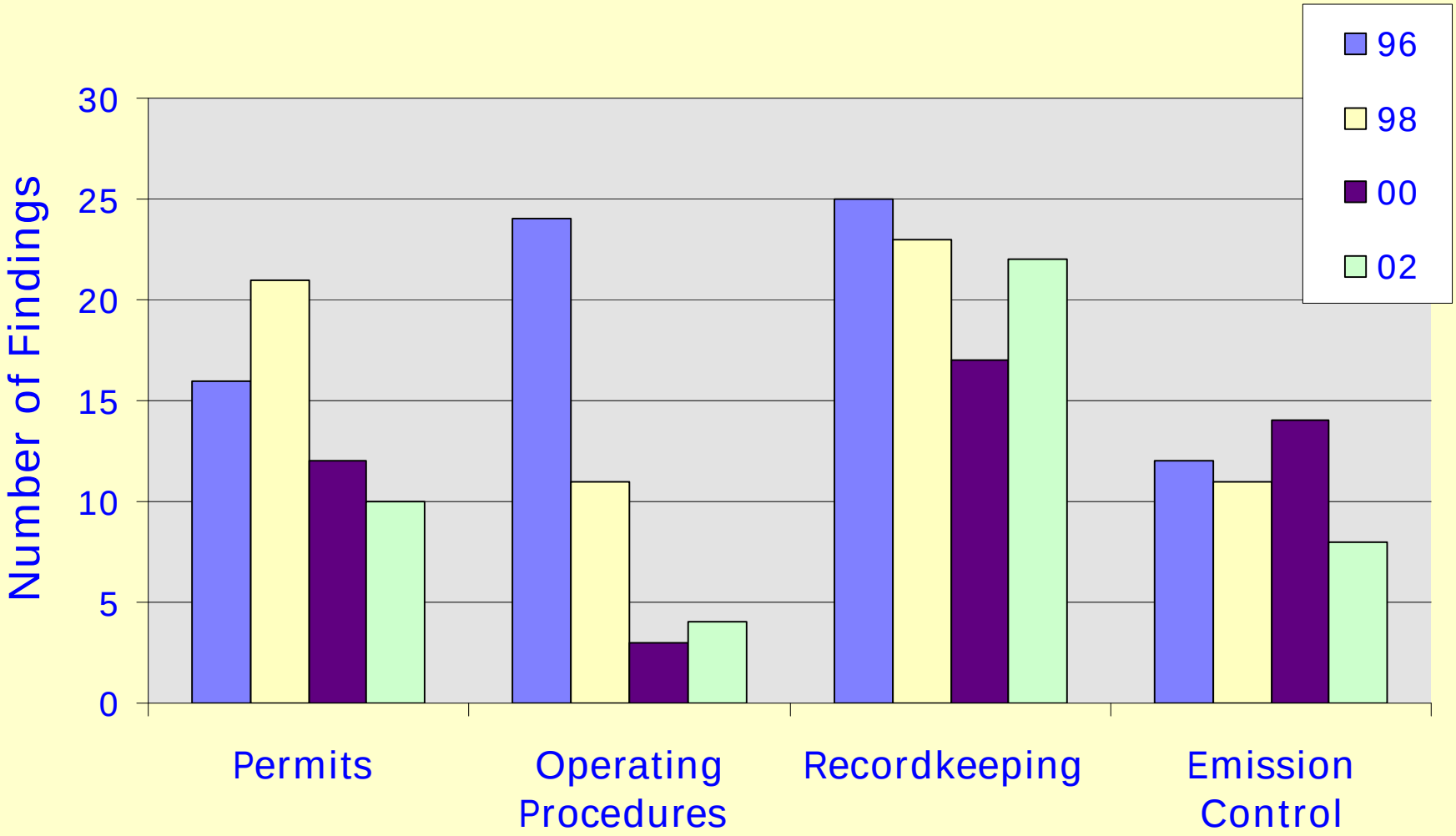


Reasons for Air ECAS Findings FY96-FY02



- Permits (includes Title V & NSR) [109]
- Operating Procedures [65]
- Recordkeeping [128]
- Emission Control [74]
- All Other Findings [164]

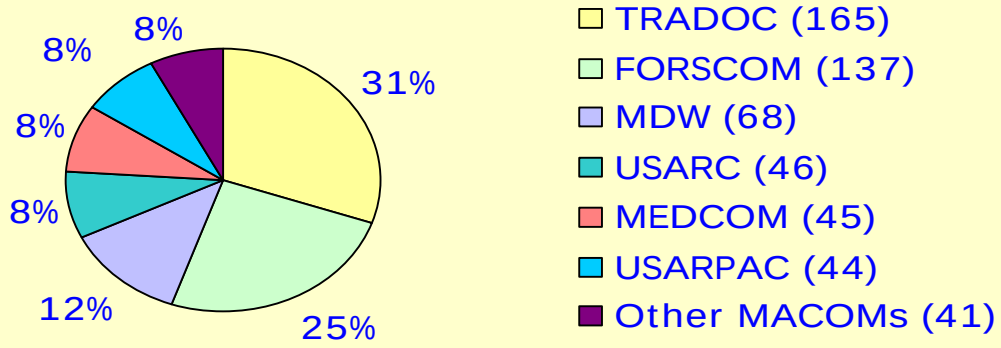
Annual Trends - Reasons for ECAS Findings

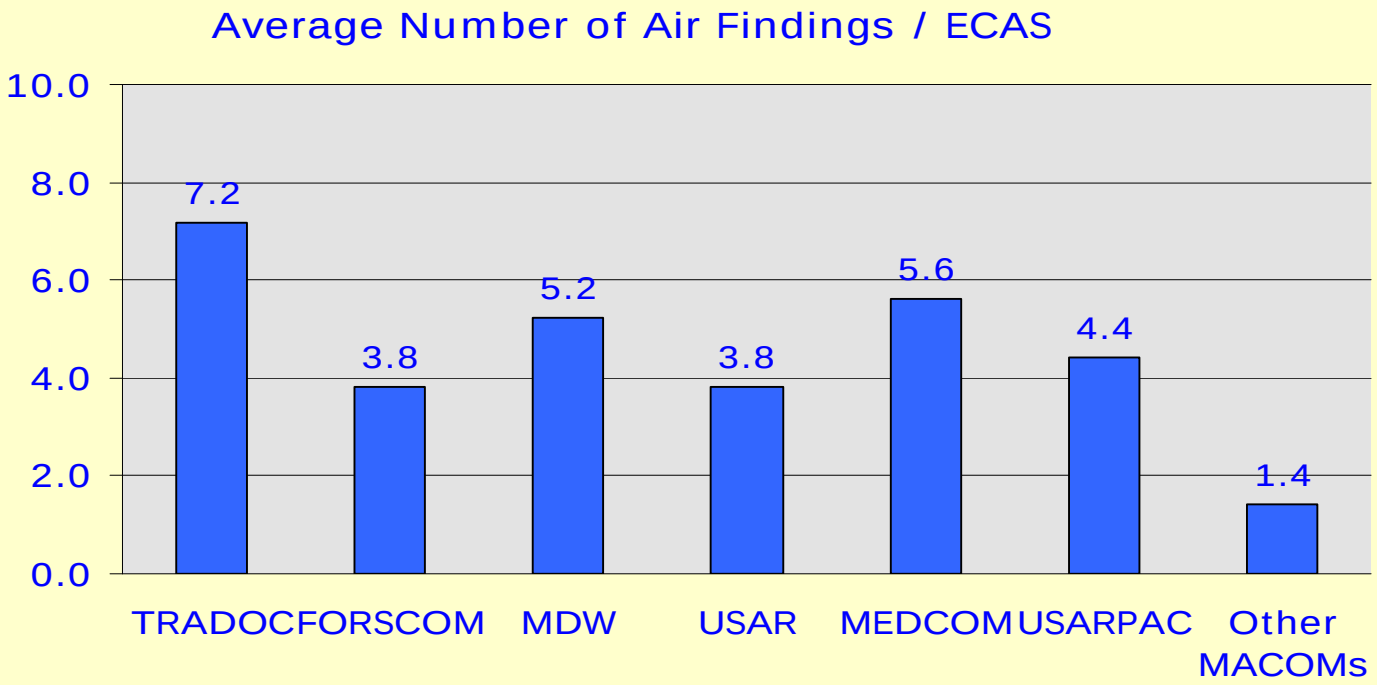


Major Commands

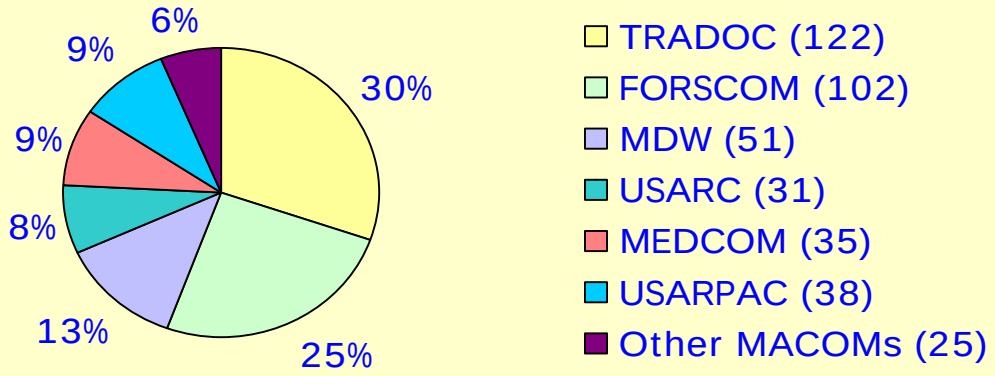
- FORSCOM
- MEDCOM
- MDW
- TRADOC
- USARC
- USARPAC
- Other MACOMS (i.e., MTMC, USMA)

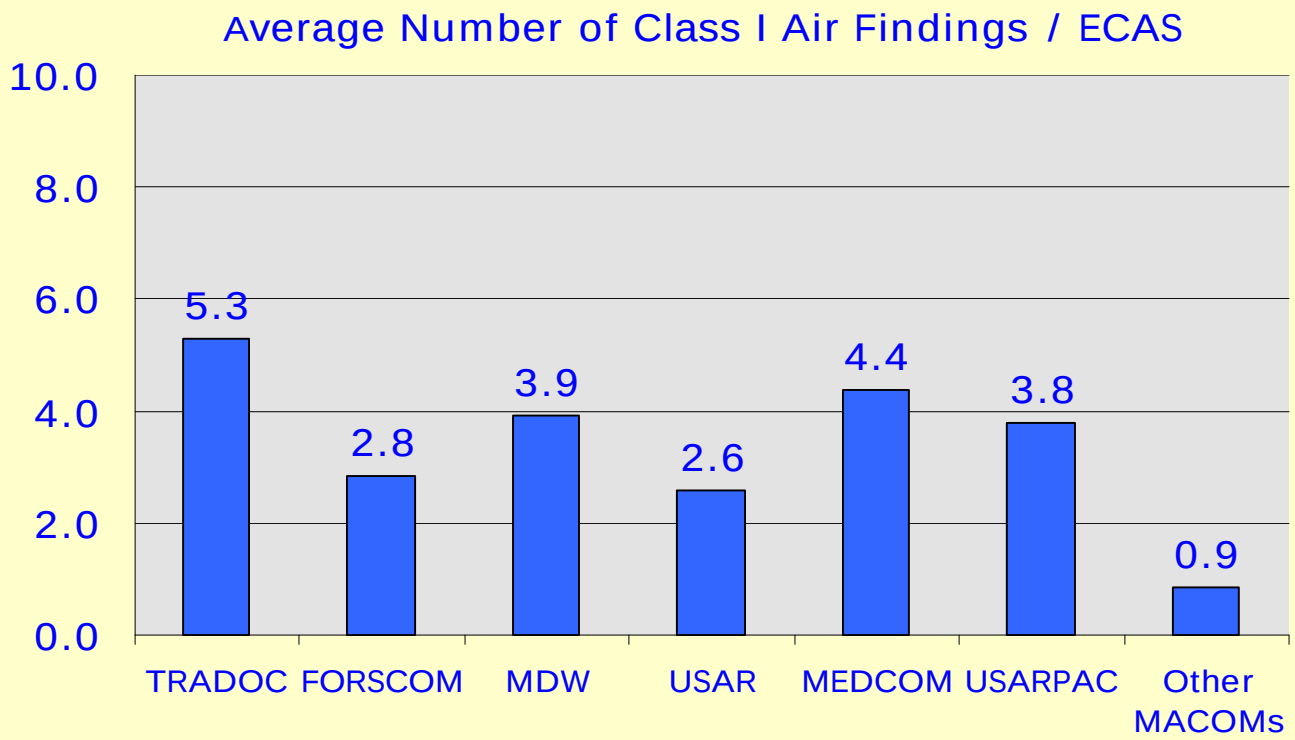
Total Air Findings by MACOM
FY96 - FY02



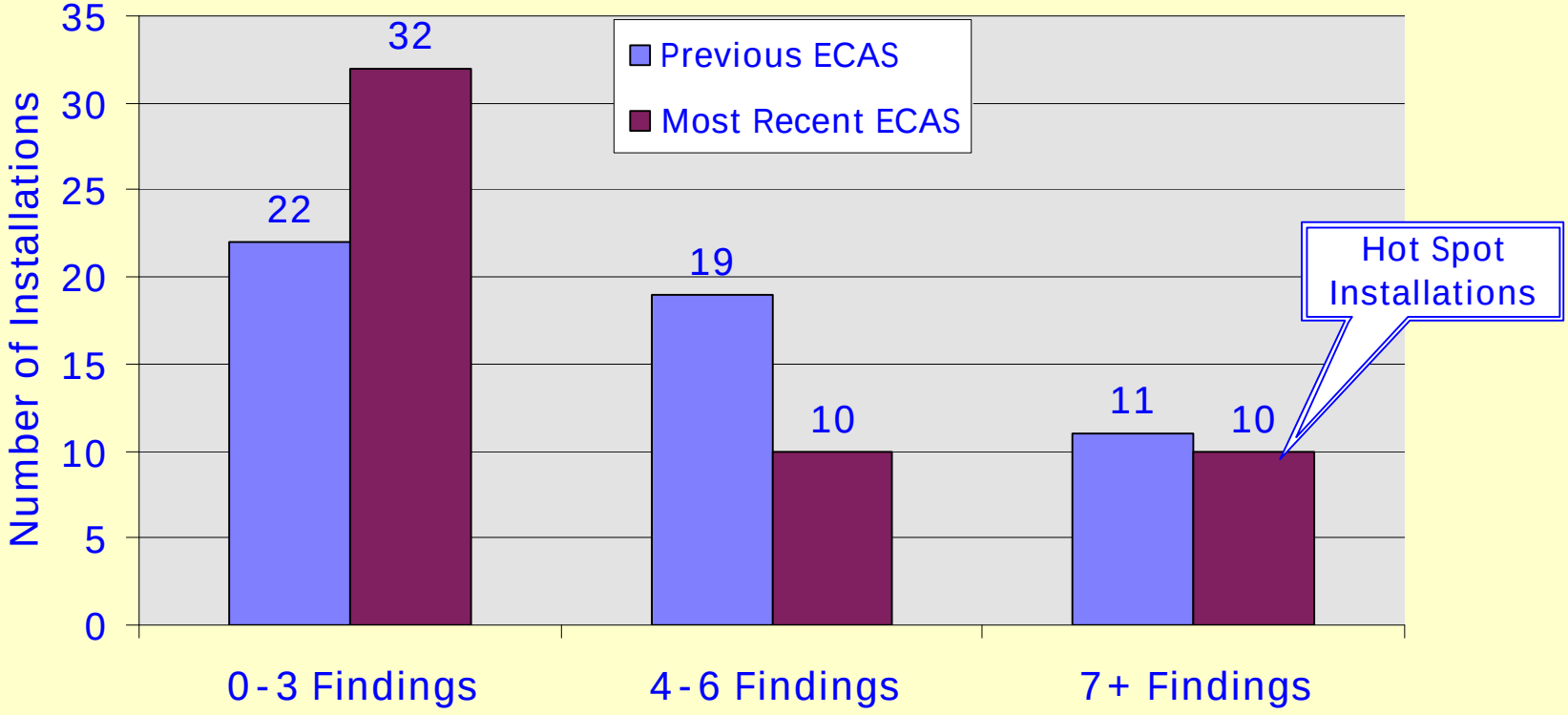


Class I Air Findings by MACOM
FY96 - FY02





Air Findings Repeat ECAS



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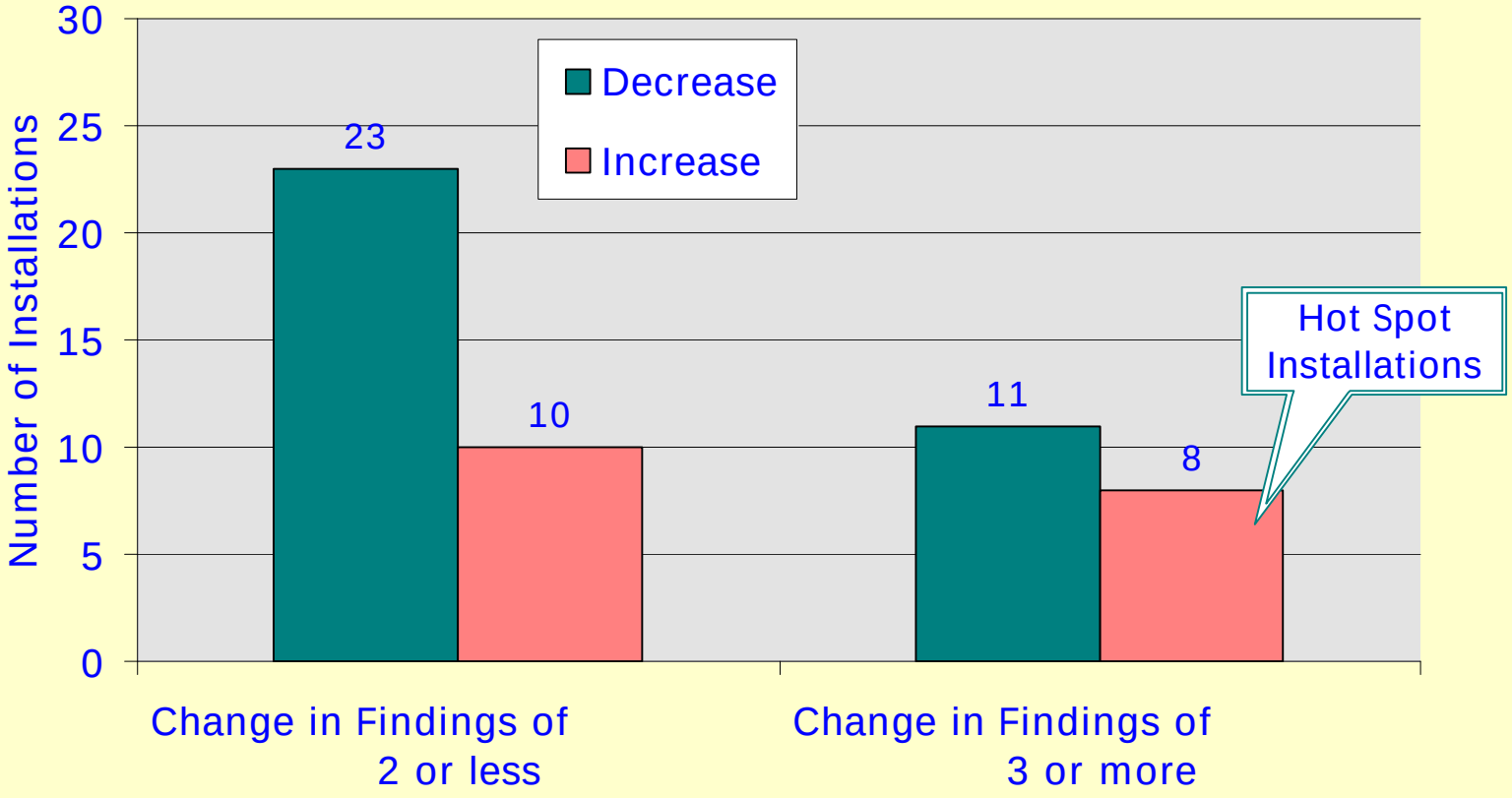
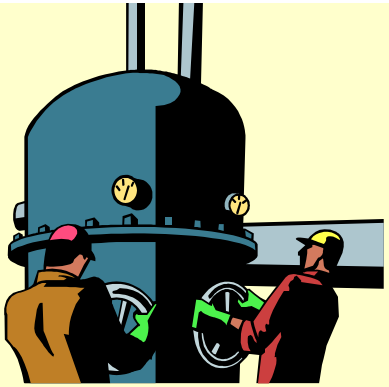
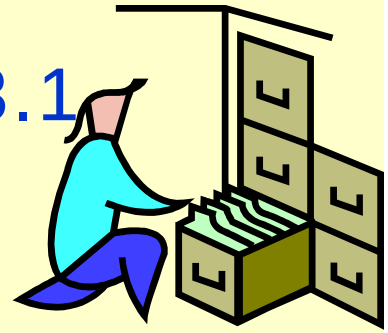


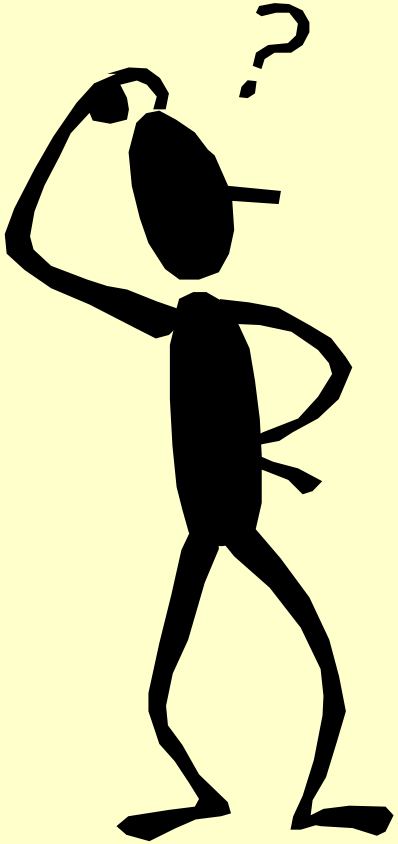


Summary

- Most common emission source problems are: ODS, installation-wide, boilers and cold degreasers
- Most common compliance issues: record keeping, permits, emission control devices and operating procedures
- Average findings per ECAS= 4.2
- Average Class I findings per ECAS= 3.1



Conclusions

- More installations are generating less findings
- Air quality trends highlight common and persistent problems for the Army air quality program
- Headquarters & MACOMs can address Hotspot installations and provide extra assistance
- Shop level staff need to be better trained to manage common compliance issues
- EPAS schedule may need to be modified to address hotspot installations

Questions?